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**Declaration under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

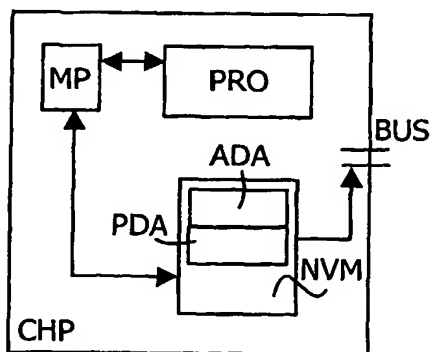
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **CHIP INTEGRATED PROTECTION MEANS.**



(57) Abstract: The invention relates to a chip for processing a content, comprising at least a microprocessor. Said chip includes an integrated non-volatile programmable memory for storing protection data and protected data, said protection data being intended to be used for authorizing/denying access to said protected data by said microprocessor under execution of a program. The invention allows to protect program and data dedicated to a chip-integrated conditional-access system and to protect features as external connections and downloaded data directly on the chip.

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05094

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 933 620 A (MACDONALD JAMES R ET AL) 3 August 1999 (1999-08-03) column 3, line 36 - line 39 column 4, line 12 - column 5, line 13 figures 1A,3 -----	1,3,9-11
X	US 5 293 610 A (SCHWARZ ROLAND H) 8 March 1994 (1994-03-08) column 3, line 24 - column 5, line 6 figures 1,2,4 -----	1,2,4-6
X	EP 1 094 393 A (TEXAS INSTRUMENTS DEUTSCHLAND) 25 April 2001 (2001-04-25) column 1, paragraph 4 column 2, line 16 - column 3, line 2 figure 1 ----- -/--	1-3

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

18 March 2004

Date of mailing of the international search report

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05094

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 063 589 A (ERICSSON TELEFON AB L M) 27 December 2000 (2000-12-27) column 3, line 9 - column 4, line 50 -----	1,2
A	WO 02/06931 A (ATABOK INC ;GAGNE ROBERT (US); KOBATA HIROSHI (US)) 24 January 2002 (2002-01-24) page 5, line 5 - line 13 page 30, line 3 - line 9 page 58, line 13 - line 23 -----	9,10
A	US 5 530 753 A (ZAJAC MYRON W ET AL) 25 June 1996 (1996-06-25) column 3, line 4 - line 10 column 6, line 16 - column 7, line 14 figure 6 -----	
A	US 6 317 849 B1 (PATEL BAIJU V) 13 November 2001 (2001-11-13) column 3, line 7 - line 63 claim 25 figure 1 -----	

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB 03/05094

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-6, 9-11

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6,9-11

Customization of features of a chip

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2. claims: 1,7,8

Protecting access to memory ranges of a microprocessor

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 03/05094

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